



## Graphics Basics

Software and how to use:

- . . . with students (modifications)
- . . . in Overlay Maker
- . . . in word processors
- . . . in presentations/web pages



## Graphics Basics (bit depth, comp, resolution)

File size of graphics effects is controlled by bit depth (colors), compression, resolution of the scanned image, and physical size of the image.

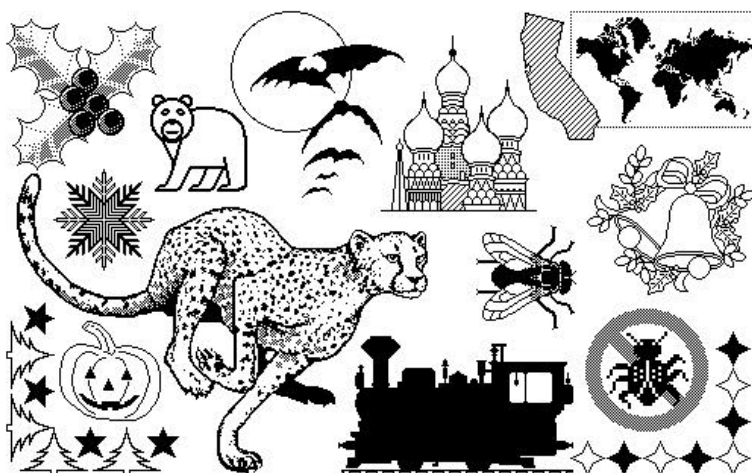
1 bit ( 1 ) is on or off, only black or white

4 bit ( 1101 ) is 16 colors

8 bit ( 11010001 ) is 256 colors

16 bit ( 0011010111010001 ) is 32,000 colors

24 bit ( 110100010011010111010001 ) is over 16,000,000 colors







## *eye yummmies*

1 bit

25 k



## *eye yummmies*

4 bit

16 colors

99 k







## *eye yummmies*

8 bit  
256 colors

200 k



## *eye yummmies*

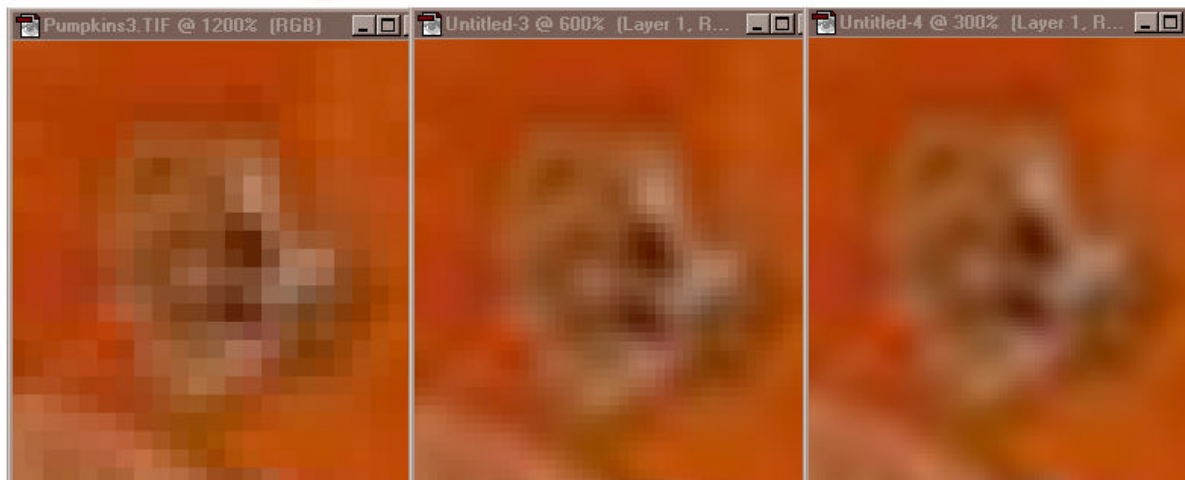
16 or 24 bit  
32,000 to  
more than  
16,000,000

600 k





3 different resolutions 6.25 x 6.25



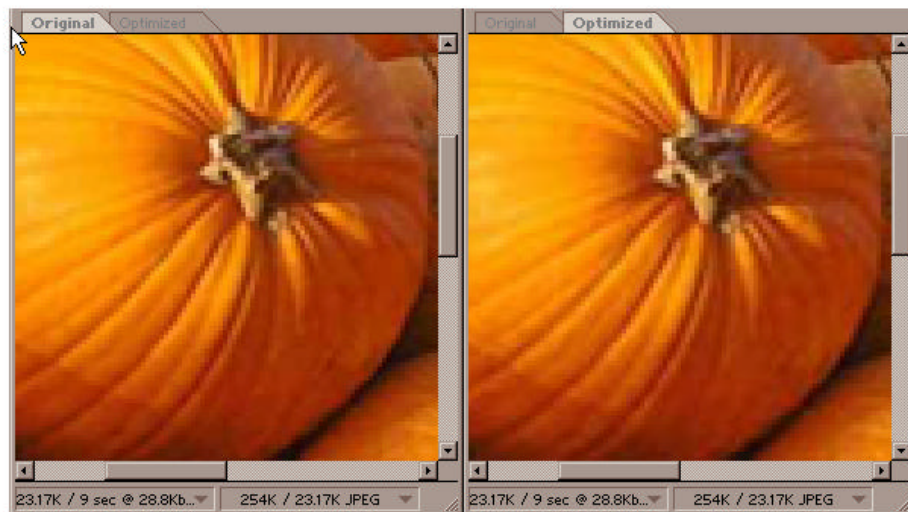
72 dpi  
596k

150 dpi  
2.53 meg

300 dpi  
10.1 meg



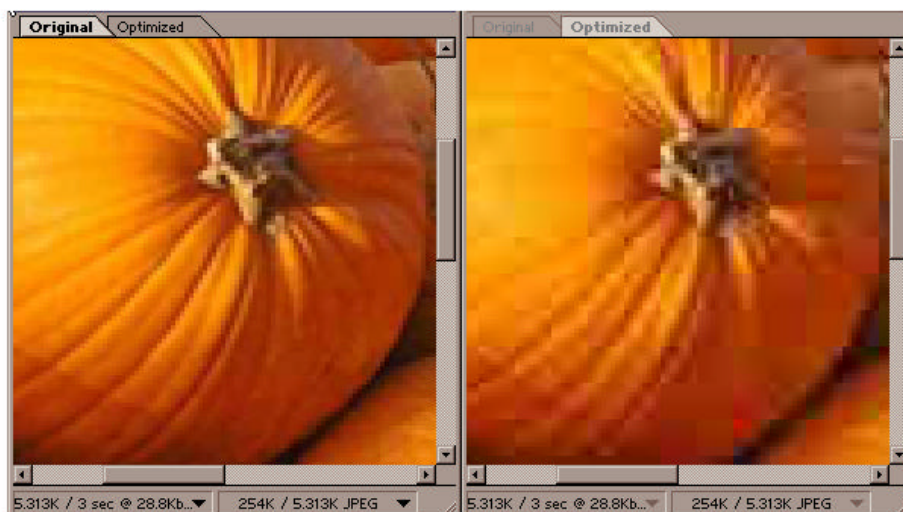
jpeg compression @ 75%







jpeg compression @ 5%



color  
halftones

reduces  
printer  
resolution

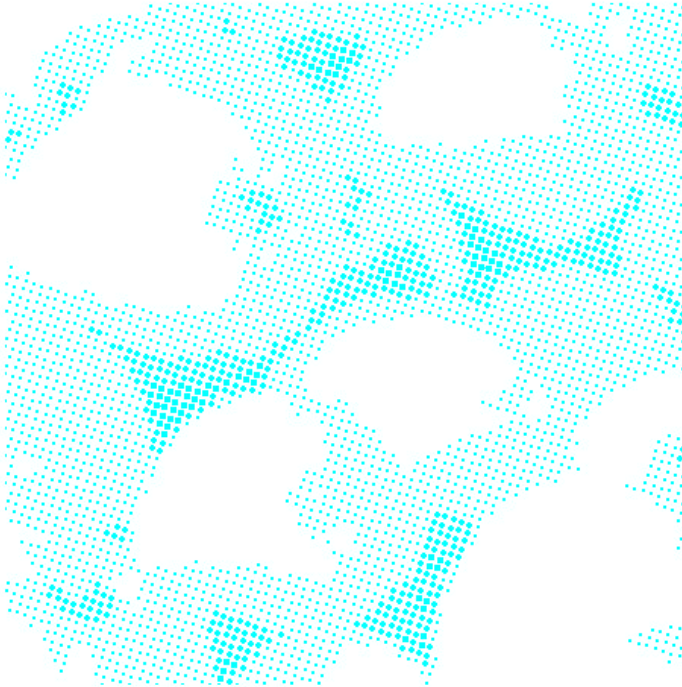




## *eye yummmies*

color  
halftones

1st ink  
cyan (light  
blue)



## *eye yummmies*

color  
halftones

2nd ink  
magenta  
(reddish)



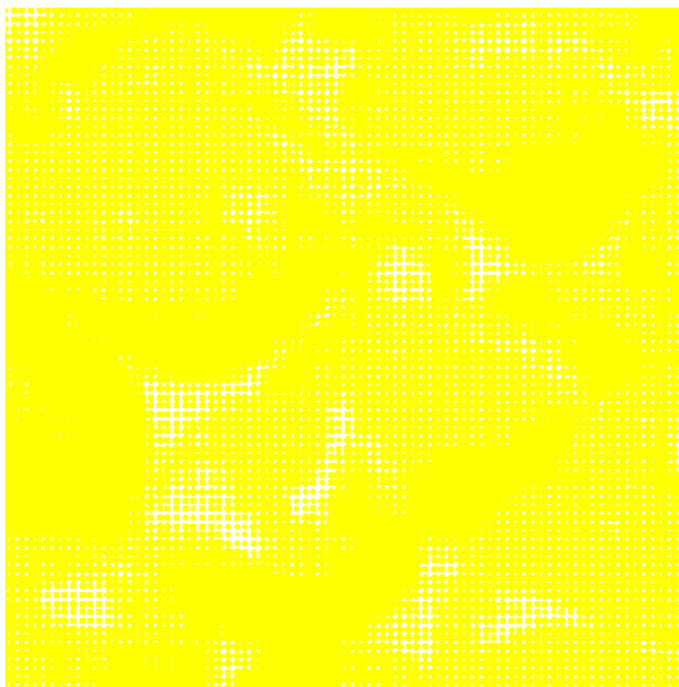




## *eye yummmies*

color  
halftones

3rd ink  
yellow



## *eye yummmies*

color  
halftones

4th ink  
black







## *eye yummmies*

color  
halftones

cmyk  
all inks



## *eye yummmies*

